

Abstract

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DeNO_x process

- 5 A process for reducing the content of NO_x and N₂O in
gases, in particular in process gases and offgases,
which comprises the measures:
- 10 a) addition of at least one nitrogen-containing
reducing agent to the NO_x- and N₂O-containing gas
in at least the amount required for complete
reduction of the NO_x,
- 15 b) addition of a hydrocarbon, of carbon monoxide, of
hydrogen or of a mixture of one or more of these
gases to the NO_x- and N₂O-containing gas for the
reduction of the N₂O and
- c) introduction of the gas mixture into at least one
reaction zone at temperatures of up to 450°C which
contains one or more iron-laden zeolites,
is described.
- 20 The process can be used, in particular, in nitric acid
production, for offgases from power stations or for gas
turbines.